

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 1747 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

**Desc. By:** Heather Percy  
**Date Desc.:** 15/06/94  
**Map Ref.:**  
**Northing/Long.:** 6319730 AMG zone: 50  
**Easting/Lat.:** 478880 Datum: AGD84  
**Locality:**  
**Elevation:** 255 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Poorly drained

**Geology**

**ExposureType:** Auger boring  
**Geol. Ref.:** No Data  
**Conf. Sub. is Parent. Mat.:** No Data  
**Substrate Material:** No Data

**Land Form**

**Rel/Slope Class:** Level plain <9m <1%  
**Morph. Type:** Flat  
**Elem. Type:** Plain  
**Slope:** 0 %  
**Pattern Type:** Alluvial plain  
**Relief:** 1 metres  
**Slope Category:** No Data  
**Aspect:** No Data

**Surface Soil Condition** Firm

**Erosion:** (wind); (sheet) (rill) (gully)

**Soil Classification**

**Australian Soil Classification:** N/A  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy5.21  
**ASC Confidence:** Confidence level not specified  
**Great Soil Group:** N/A

**Site** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:**

**Surface Coarse** No surface coarse fragments; No surface coarse fragments

**Profile**

A1	0 - 0.06 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Wet;
		Field pH 6 (Raupach); Abrupt, Smooth change to -
A2	0.06 - 0.25 m	Yellowish brown (10YR5/4-Moist); ; Sand; Single grain grade of structure; Wet; Field pH 6 (Raupach);
		Abrupt change to -
B2t	0.25 - 0.5 m	Yellowish brown (10YR5/6-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Sandy light clay;
		Moderate grade of structure; Rough-ped fabric; Moist; Field pH 5.5 (Raupach); Clear change to -
B3	0.5 - 0.6 m	Light brownish grey (10YR6/2-Moist); Mottles, 2.5YR46, 20-50% , 5-15mm, Prominent; Sandy light
		medium clay; Moderate grade of structure; Rough-ped fabric; Moist; Field pH 5 (Raupach);

**Morphological Notes**

**Observation Notes**

**Site Notes**

Site on Hillman flats along the Darkan-Williams Road. Site cleared 15 years ago. Cropped every 4-5 years with oats.

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5B									
0.15 - 0.25	4.8B									
0.25 - 0.45	4.3B	34B	1.8H	0.38	0.04	0.05	<0.02J		2.27D	

0.4 - 0.5      4.9H  
4.3B

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>			%	
0 - 0.1											
0.15 - 0.25											
0.25 - 0.45									62.5l		7
30.5											
0.4 - 0.5											

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMd	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn <sup>2+</sup> ) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded